

CHAL-037

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27 October 1958

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MEMORANDUM FOR: Special Assistant to the Director
for Planning and Development

SUBJECT : Performance Figures of the Faceplate

In accordance with your request, here are the revised estimated performance figures for the Faceplate. Faceplate is believed to be the MIG-21. It is a single place super-sonic swept-wing day interceptor.

Basic Mission		Optional Mission
Combat Weight	13,400 lbs	12,000 lbs
Combat Range	675 N.M.	595 N.M.
Combat Radius	240 N.M.	215 N.M.
Range with Tanks	1,395 N.M.	1,200 N.M.
Combat Altitude	50,000 ft	50,000 ft
Combat Speed	720 kts	725 kts
*Combat Ceiling	61,000 ft	61,300 ft
#Service Ceiling	61,800 ft	62,100 ft
Time S.L. to -		
50,000 ft	6.3 min	6.3 min
Total Mission -		
Time	92 min	63 min
T.M. Time with Tanks	2.2 hrs	2.0 hrs
Max Speed at -		
35,000 ft	890 kts	895 kts

*Combat ceiling is that altitude, for a given weight and engine power setting, at which the maximum rate of climb is 500 ft a minute.
#The service ceiling for the same conditions is the altitude at which the maximum rate of climb is 100 ft a minute.

Major USAF
Intelligence Officer

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DPS/DCI/EFR:gas

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